

ANDRONOV, L.I., i VOV, D.S., kand. ekon. nauk, rezensent;  
GOCHINSKIY, A.G., inzh., red.

[Economic efficiency of the technological reorganization of a machinery manufacturing plant] Ekonomicheskaya effektivnost' tekhnicheskogo perevozrucheniya mashinostroitel'nogo zavoda. Moskva, Mashinostroenie, 1965.  
182 p. (MIRA 18:5)

Sochinskiy, A.R.

PHASE I BOOK EXPLOITATION 389

Satel', Eduard Adamovich

Osnovy organizatsii i planirovaniya mashinostroitel'nykh predpriyatiy  
SSSR (Principles of Organization and Planning of Machine-  
building Enterprises in the USSR) Moscow, Mashgiz, 1957,  
155 p. 12,000 copies printed.

Ed.: Sochinskiy, A.R., Engineer; Ed. of Publishing House:  
Barykova, G.I.; Tech. Ed.: Uvarova, A.F.; Managing Ed. for  
Literature on the Economics and Organization of Machine Building  
(Mashgiz): Saksaganskiy, T.D.

PURPOSE: This book is intended as a text-book for students of  
industrial engineering institutes and industrial engineering  
departments of technical vuzes and is authorized as such by  
the Ministry of Higher Education. It is also considered  
useful to engineering and technical personnel in machine-  
building enterprises.

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Principles of Organization and Planning of Machine (Cont.) 389

automation. In another example, the automation equipment at the Moscow Bearing Plant is reported to consist of a line which includes eighty-four units, of which sixty-nine are machine tools. This automated line machines bearing races, coats the races with anticorrosive substances, assembles, and packs both roller and ball bearings. Chapters I to V were written by Professor E.A. Satel' and reviewed by Doctor of Economic Sciences K.I. Klimenko; chapter VI was written by Candidate of Technical Sciences N.A. Radushinskiy and reviewed by Engineer S.A. Dumler. All chapters were read by the Department of Organization and Production Economics of the Moscow Auto-mechanic Institute. There are no references.

Card 3/4

SOCHINSKIY A.R.

METT, Georgiy Yakovlevich; YUR'YEV, Nikolay Mikhaylovich; BUSYATSKAYA, L.A.,  
inzh.retsenzent; SOCHINSKIY, A.R., inzh., retsenzent; BOGINSKIY,  
M.N., ekonomist, red.; SALYANSKIY, A., red.izd-va; MATVEYeva, Ye.N.,  
tekhn.red.

[Planning in machinery manufacturing factories] Planirovanie na  
mashinostroitel'nom zavode. Moskva, Gos. nauchno-tekhn.izd-vo  
mashinostroit. lit-ry, 1957. 243 p. (MIRA 11:4)  
(Machinery industry)

... (After Reviewer's)

207

AUTHORS: Sykhenval'd, A.V., and Sochinskiy, A.R.

TITLE: Operational and Production Planning and Dispatching  
in a Machine-Building Plant (Operativno-proizvodstvennoye  
planirovaniye i dispatchirovaniye na mashinostroitel'nom  
zavode).

PUB. DATA: Gosudarstvennoye nauchno-technicheskoye izdatel'stvo  
mashinostroitel'noy literatury, Moscow, 1957,  
248 pp., 8000 copies.

ORIG. AGENCY: None given.

EDITOR: Letenko, V.A., Docent, Candidate of Economic  
Sciences; Publishing House Ed.; Sakaganskiy, T.D.;  
Reviewers: Bilinkis, M.S., Engineer, and Zakharov, M.Z.,  
Engineer; Tech. Ed.: Sokolova, T.F.

Card 1/4

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651910018-9"

Operational and Production Planning and Dispatching (Cont.)

PURPOSE: The book is intended as a textbook for a course on  
Operational and Production Planning and Dispatching  
in Machine Building Plants, which is taught in  
technical schools of the Main Administration for Labor  
Reserves. It was prepared in accordance with the latter's  
educational program and approved by the Main Labor  
Reserves Administration of the Council of Ministers  
of the USSR.

COVERAGE: The subject textbook is intended for technical school  
(Junior college level) students who have had no  
previous studies of the subject matter, and has, therefore,  
a basically descriptive approach. The principal  
topic areas presented are: an outline of planning  
systems employed in mass and series-production as well  
as individual item manufacture; objectives of opera-  
tional and production planning, and dispatching in

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Operational and Production Planning and Dispatching (Cont.)

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AVAILABILITY: Library of Congress

Card 4/4

SQCHINSKIY, A. R.

KATSENBODEN, Boris Yakovlevich [deceased]; KREPISH, P.V., kand.ekon.nauk,  
dots., retsenzent; SQCHINSKIY, A.R., inzh., retsenzent; GERCHUK,  
Ya.P., kand.ekon.nauk, red.; GOROLYUBOVA, I.Yu., red.izd-va  
[deceased]; GERASIMOVA, Ye.S., tekhn.red.

[Operational schedule planning in machinery manufacturing plants]  
Operativno-kalendarnoe planirovanie na mashinostroitel'nom zavode.  
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 182p.  
(MIRA 11:5)  
(Machinery industry)

SATEL<sup>1</sup>, Eduard Adamovich, prof., doktor tekhn.nauk, red.; LETENKO,  
Viktor Aleksandrovich, kand.ekon.nauk; BRYANSKIY, Georgiy  
Anatoliyevich, kand.ekon.nauk; SAMPORSKIY, Georgiy Ivanovich,  
kand.ekon.nauk; ORLOV, N.A., prof., retsenzent; FRUMIL, I.L.,  
kand.ekon.nauk, retsenzent; STEL'MAKHOVICH, N.A., kand.tekhn.  
inzh.-ekon., retsenzent; BELYAYEV, A.V., inzh.-ekon., retsenzent;  
SOCHINSKIY, A.R., inzh., red.; SALYANSKIY, A.A., red.izd-va;  
EL'KIND, V.D., tekhn.red.

[Principles of the technology of production and labor organiza-  
tion] Osnovy tekhnicheskoi podgotovki proizvodstva i organi-  
zatsii truda. Pod red. E.A.Satelia. Moskva, Gos.nauchno-tekhn.  
izd-vo mashinostroit.lit-ry, 1959. 330 p. (MIRA 12:10)  
(Machinery industry)

SOCHINSKIY, Aron Ruvimovich; VLASOV, P.Ya., red.

[Fundamentals of organization in an industrial enterprise] Os-  
novy organizatsii promyshlennogo predpriatiia. Pod red. P.IA.  
Vlasova; uchebnoe posobie dlia kursov podgotovki i povysheniia  
kvalifikatsii bukhgalterov promyshlennosti. Moskva, Gos. plan-  
izdat, 1960. 279 p.  
(Industrial management)

KREFISH, Pavel Vladimirovich; ANDREYEV, A.M., dots., retsenzent; SOCHINSKIY,  
A.R., inzh., red.; RADAYEVA, Z.A., red. izd-va; EL'KIND, V.D., tekhn.  
red.

[Methods for scheduling production in a machinery plant] Metodika ka-  
lendarnogo planirovaniia proizvodstva na mashinostroitel'nom pred-  
priatii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,  
1961. 250 p. (MIRA 14:9)  
(Machinery industry) (Industrial management)

SOCHINSKIY, Aron Ruvimovich; VLASOV, P.Ya., kand. ekon. nauk, red.;  
SMIRNOV, Ye.I., red.; PONOMAREVA, A.A., tekhn. red.

[Principles of the organization of an industrial enterprise]  
Osnovy organizatsii promyshlennogo predpriatiia; uchebnoe  
posobie dlia kursov podgotovki i povyshenija kvalifikatsii  
bukhgalterov promyshlennosti. Izd.2., perer. i dop. Pod  
red. P.IA.Vlasova. Moskva, Ekonomizdat, 1962. 323 p.  
(MIRA 15:11)  
(Industrial organization)

BRYANSKIY, G.A., kand. ekon. nauk; BYALKOVSKAYA, V.S., kand. ekon. nauk; KIVLOVA, N.V.; inzh; SLOGKEVICH, N.I., kand. ekon. nauk; STEPANOV, A.P., kand. ekon. nauk; KHOLOMINA, O.A., kand. ekon. nauk; GORENSTEIN, B.I., inzh., retsenzent; SUSHINSKIY, A.R., inzh., red.

[Problems on the organization and planning of machinery-industry enterprises] Sbornik zadach po organizatsii i planirovaniyu mashinostroitel'nykh predpriiatii. [By] G.A. Brianskii i dr. Moskva, Mashinostroenie, 1964. 406 p.  
(MIRA 17:9)

*Sochiavskiy S.C.*

BOKOVSKIY, P. V.

PHASE I BOOK EXPLOITATION

SOV/6206

*25*

Konferentsiya po teorii plastin i obolochek. Kazan', 1960.

Trudy Konferentsii po teorii plastin i obolochek, 24-29 oktyabrya 1960. (Transactions of the Conference on the Theory of Plates and Shells Held in Kazan', 24 to 29 October 1960). Kazan', [Izd-vo Kazanskogo gosudarstvennogo universiteta] 1961. 426 p. 1000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Kazanskiy filial. Kazanskiy gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina.

Editorial Board: Kh. M. Mushtari, Editor; F. S. Isanbayeva, Secretary; N. A. Alumyaev, V. V. Bolotin, A. S. Vol'mir, N. S. Ganiyev, A. L. Gol'denveyzer, N. A. Kil'chevskiy, M. S. Kornishin, A. I. Lur'ye, G. N. Savin, A. V. Sachenkov, I. V. Svirskiy, R. G. Surkin, and A. P. Filippov. Ed.: V. I. Alekseev; Tech. Ed.: Yu. P. Semenov.

PURPOSE: The collection of articles is intended for scientists and engineers who are interested in the analysis of strength and stability of shells.

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Transactions of the Conference (Cont.)

SOV/6206

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COVERAGE: The book is a collection of articles delivered at the Conference on Plates and Shells held in Kazan' from 24 to 29 October 1960. The articles deal with the mathematical theory of plates and shells and its application to the solution, in both linear and nonlinear formulations, of problems of bending, static and dynamic stability, and vibration of regular and sandwich plates and shells of various shapes under various loadings in the elastic and plastic regions. Analysis is made of the behavior of plates and shells in fluids, and the effect of creep of the material is considered. A number of papers discuss problems associated with the development of effective mathematical methods for solving problems in the theory of shells. Some of the reports propose algorithms for the solution of problems with the aid of electronic computers. A total of one hundred reports and notes were presented and discussed during the conference. The reports are arranged alphabetically (Russian) by the author's name.

Card 2/14

Transactions of the Conference (Cont.)	SOV/6206
Selezov, I. T. Investigation of the Propagation of Elastic Waves in Plates and Shells	347
Slepov, B. I. Dynamic Stability of a Circular Cylindrical Shell Under Wave-Impact Loading	353
Sochinskiy, S. V., and V. S. Chuvikovskiy. On Nonlinear Dynamic Deformations of Rectangular Plates and Cylindrical Shells	358
Surkin, R. G., and L. A. Kuznetsova. On the Flexural Problem of a Shallow Square Spherical Panel With a Nonlinear Stress-Strain Relationship	362
Teregulov, I. G. On the Theory of Plates of Medium Thickness	367
Tkachuk, G. I. Integral-Differential Equations of the Theory of Thin Elastic Shells of Revolution	376

Card 12/14

SOCHINSKIY, V. P.

USSR/Mining - Machines

Card 1/1

Authors : Fedorov, G. P., and Sochinskiy, V. P.  
Title : Mechanization of the Excavation of Coal with Cutting and Loading  
Machines, and Taking Into Account All Basic Processes  
Periodical : Mekh. Trud. Rab. Ed. 3, 38 - 39, Apr - May 1954  
Abstract : A comprehensive review is presented on problems related to the  
mechanized excavation of coal with cutting and loading machines,  
type UKMG. The author takes into account various technological  
processes involved in the above operations, and suggests improve-  
ments which, in his opinion, would result in saving time and increas-  
ed coal production. Drawings.  
Institution : ....  
Submitted : ....

IVANOV, N.I., kand.tekhn.nauk; SOCHINSKIY, V.P., gornyy inzh.

Efficient systems for opening up new levels in operative Donets  
Basin mines working flat seams. Ugol' Ukr. 4 no.8:19-24  
Ag '60. (MIEA 13:9)

1. Donetskiy ugol'nyy institut.  
(Donets Basin—Coal mines and mining)

IVANOV, N.I.; SHTEDING, A.E.; Prinimali uchastiye: ZYKOV, V.M., inzh.;  
BEREZNIITSKIY, I.I., inzh.; MORENKO, N.A., inzh.; SOCHINSKIY, V.P.,  
otv. red.; NURMIUKHOMEDOVA, V.F., red. izd-va; PROZOROVSKAYA, V.L.,  
tekhn. red.

[Reorganization of coal mines] Rekonstruktsiia ugol'nykh shakht.  
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Pt.1.  
[Practices of foreign countries in the reorganization of coal  
mines] Zarubezhnyi optyt rekonstruktsii shakht. 1961. 222 p.  
(MIRA 15:1)

(Coal mines and mining)

IVANOV, N.I., kand.tekhn.nauk; SOCHINSKIY, V.P., inzh.; KAGANSKIY, M.Ye.,  
inzh.; ZYKOV, V.M., inzh.

Efficient methods of developing new levels in the operative  
Donets Basin mines mining flat seams. Sbor.DonUGI no.21:3-35  
'61. (MIRA 15:6)  
(Donets Basin--Coal mines and mining)

IVANOV, N.I., kand.tekhn.nauk; SOCHINSKIY, V.P., inzh.

Selecting the method of deepening the vertical shafts of operative  
Donets Basin mines mining flat seams. Sbor.DonUGI no.21:139-166  
'61. (MIRA 15:6)  
(Donets Basin—Shaft sinking)

SOCHINSKIY, V.P., otv. red.; SILINA, L.A., red. izd-va

[Recommendations for the planning and carrying out of the overall mechanization and automation of Donets Basin coal mines] Rekomenda sii k proektirovaniyu i osushchestvleniyu kompleksnoi mekhanizatsii i avtomatizatsii ugol'nykh shakht Donbassa. Moskva, Gosgortekhizdat, 1963. 175 p.

(MIRA 17:5)

1. Donetsk. Donetskij nauchno-issledovatel'skiy ugol'nyy institut.

SOCHIVKO, A. A.

PHASE I BOOK EXPLOITATION SOV/3834

Petrov, Viktor Pavlovich, and Arkadiy Arkad'yevich Sochivko  
Upravleniye raketami (Rocket Guidance) Moscow, Voyenizdat, 1959. 207 p.  
No. of copies printed not given.

Ed.: V.L. Sterligov, Engineer, Major; Tech. Ed.: M.P. Zudina.

PURPOSE: This book is intended for officers of combined-arms units  
studying fundamentals of rocket engineering and for other readers  
interested in the subject.

COVERAGE: The book is a popular account of the physical principles  
on which guidance of rocket weapons is based. It provides data  
on rocket flight and guidance systems derived from non-Soviet  
sources. No personalities are mentioned. There are 26 references:  
23 Soviet (8 of which are translations or compilations of Western  
literature), 2 English and 1 German.

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Preface  
~~Card 1/7~~

S/026/61/000/007/001/002  
D051/D112

AUTHORS: Petrov, V.P. (Leningrad), Sochivko, A.A. (Leningrad)

TITLE: Weather and artificial satellites

PERIODICAL: Priroda, no.7, 1961, 25-32

TEXT: In this article, intended for the general reader, the authors describe the role played by artificial satellites in weather forecasting. Most of the information given is obtained from US sources. The effect of cosmic phenomena on the weather is stressed. Some scientists consider that the process by which a tropospheric cyclone leads to the formation, in the upper layers of the atmosphere, of an anticyclone above which a cyclone is formed etc. extends up to 400 km; all these atmospheric circulations are interconnected. The start of the third sputnik gave for the first time the possibility to study the atmosphere from above. Subsequent satellites and rockets basically changed the previous conceptions of the upper atmosphere. Two very important facts were established:

1. The Earth is surrounded by layers (belts) of intense cosmic radiation (Fig.1).  
2. The density of the atmosphere above 500 km from the Earth is 16-40 times greater than considered up to 1955.

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D051/D112

Weather and artificial satellites

The first of these discoveries was made by means of cosmic particle counters. The second was made by observing the orbits of artificial Earth satellites. The radiation belts around the Earth explain the fact that above the poles the effective temperature of the upper atmosphere is higher than in moderate latitudes. The temperature changes in the upper atmosphere and the intensity of radiation of the belts depend on solar activity and are connected with the eleven year cycle of change of the general circulation of the atmosphere. The influence of the radiation belts on the general circulation of the atmosphere is strong due to the relatively high density of the upper atmospheric layers. With high-altitude rockets and artificial Earth satellites the intensity of the X-ray, ultraviolet, and other solar radiation absorbed by the terrestrial atmosphere was determined. However, calculations showed that the solar energy absorbed by atmospheric layers above a distance of 200 km from the Earth is insufficient for the thermal flow which heats the upper atmosphere. It was found that charged particles of the radiation belts, cosmic particles from interstellar space, lunar radiation, the energy of meteors etc. considerably contribute to this flow. Already prior to the start of artificial satellites it was observed that the strongest precipitations occur 30-40 days after the intersection of the paths of meteor flows by the orbit of the Earth and that showers of meteors and showers of cosmic dust precede the usual rainfalls.

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D051/D112

Weather and artificial satellites

Artificial satellites whose equipment and devices are basically intended for the study of processes occurring beyond the limits of the dense atmospheric layers are called geophysical satellites. The most important of these was the third sputnik. Meteorologically, geophysical experiments are valuable, because they serve to improve long-range and superlong-range weather forecasts. The satellites must be precisely orientated in space. The simplest solution of this problem is the "untwisting" of the satellite during launching, in order to give it gyroscopic properties. This stabilization system, used in the Tiros I and II satellites, has the disadvantage that the satellite faces the Earth only during one half of its orbit. However, for recording the reverse side of the Moon the cameras of the Soviet interplanetary station were focused on the Moon's center by means of a very perfect tracking system. The optical elements of this system tracked the limb of the Moon and upon deviation of the orientated axis from the direction towards the Moon's center gave a signal for switching in the orientation system of the rocket. A similar system can be used for the orientation of the devices of a meteorological satellite towards the Earth (Fig.3). Due to the rotation of the Earth about its axis, a complete survey of the Earth's surface can only be made by putting the satellite into an orbit whose plane intersects the poles of the Earth. At a revolution time of 1.5 hours one satellite will be able to record within one day the

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S/026/61/000/007/001/002  
D051/D112

Weather and artificial satellites

entire terrestrial surface. In addition to cloud charts a meteorological satellite also can provide data on the temperature of the Earth's surface and the upper layers of the troposphere. The upper section of Fig.7 gives an approximate energy distribution by wavelengths in the spectrum of the Sun ( $6,000^{\circ}\text{K}$ ) and the Earth ( $300^{\circ}\text{K}$ ). For visible light the terrestrial atmosphere is transparent. This is confirmed by the nearly complete absence of absorption bands in the atmosphere near the maximum of solar radiation (see lower section of Fig.7 beneath the radiation curve of the Sun). For the radiation emitted from the Earth's surface the atmosphere is nearly opaque (Fig.7). There is only a small "window" in the  $9-12\mu$  region. For these rays the absorption of terrestrial radiation is by 1,000 times weaker than in the  $5-7\mu$  region. Filters were developed allowing the passage of narrow bands of infrared radiation. In satellites the use of filters intended for the  $9-12\mu$  range permits measuring the intensity of terrestrial radiation (the Sun does not emit these wavelengths) and, consequently, determining the temperature of the Earth's surface. Left and right near the "window" the terrestrial radiation is absorbed basically by water vapors. But the vapors themselves emit radiation and by using a filter intended for a small wavelength range near  $6\mu$  it will be possible to determine the temperature of the upper layers of the water va-

Card 4/8

PHASE I BOOK EXPLOITATION

SOV/6474

Petrov, Viktor Pavlovich and Arkadiy Arkad'yevich Sochivko

Upravleniye raketami (Rocket Guidance) 2d ed., rev. and enl. Moscow,  
Voyenizdat M-va obor. SSSR, 1963. 263 p. 25,000 copies printed.

Eds.: V. L. Sterligov and G. F. Peretrukhina; Tech. Ed.: N. N.  
Kokina.

PURPOSE: This book is intended for combined-arms officer personnel  
and others studying the fundamentals of rocketry.

COVERAGE: The book presents the fundamental principles of rocket-  
weapons control in a form accessible to the nonspecialist.  
Information on the theory of reaction propulsion and an  
examination of the more common rocket guidance systems (based  
on non-Soviet sources) are presented. No personalities are  
mentioned. There are 28 references, all Soviet.

Card 1/4

SOCHIVKO, A.S.

Track and roadway control communication system. Avtom., telem.i  
sviaz' no.5:34-35 My '57. (MIRA 10:7)

1. Nachal'nik sluzhby signalizatsii i svyazi Moskovsko-Kursko-  
Donbasskoy dorogi. (Railroads--Communication systems)

STEPANOV, N.M.; SOCHIVKO, A.S.

What will be done in 1958. Avtom., telem. i sviaz' 2 no. 2:33-34  
(MIRA 11:1)  
F '58.

1. Nachal'nik tekhnicheskogo otdela Giprotranssignalsvyazi (for  
Stepanov). 2. Nachal'nik sluzhby signalizatsii i svyazi Moskovsko-  
Kursko-Donbasskoy dorogi (for Sochivko).  
(Railroads--Signaling)

SOCHIVKO, A.S.

Building of new and modernization of old devices. Avtom., telem.  
i sviaz' 3 no.2:7-8 F '59. (MIRA 12:4)

1. Nachal'nik sluzhby signalizatsii i svyazi Moskovsko-Kursko-Don-  
basskoy dorogi. (Railroads--Equipment and supplies)

SOCHIVKO, A.S.

They were given the rotating Red Banner. Avt., telem. i sviaz' 5  
no.1:21-22 Ja '61. (MIRA 14:3)

1. Nachal'nik sluzhby signalizatsii i svyazi Moskovskoy dorogi.  
(Railroads)

SOCHIVKO, A. S.

"Automation of Hump Yards."

report presented at the Symp on Use of Cybernetics on Railways, Paris, 4-13 Nov 63.

SOCHIVKO, A.S.

Computer center of the Moscow Railroad. Zhel. dor. transp. 47 no. 7;  
79-81 Jl '65. (MIRA 18:7)

1. Nachal'nik Vychislitel'nogo tsentra Moskovskoy dorogi.

SOCHIVKO, L.F., DERNOVSKAYA-ZELENTSOVA, G.L., ZAKHAROV, A.A.

A reflex oxyhemometer with a cuvette [with summary in English]  
(MIRA 11:6)  
Vop.med.khim. 4 no.3:225-229 My-Je '58

1. Konstruktorsko-tekhnologicheskoye byuro "Biofizpribor,"  
Leningrad.

(OXYGEN, in blood  
determ. with reflex oxyhemometer with cuvette (Rus))

SOCHIVKO, I.F.; DERNOVSKAYA-ZELENTOVA, G.L.; VASADZE, G.Sh.;  
KOCHETYGOV, N.I.

OP-01 flow oxyhemometer, a new apparatus for the determination of  
blood saturation with oxygen. Pat.fiziol.eksp.terap. 4 no.1:71-  
73 Ja-F '60. (MIRA 13:5)

1. Iz konstruktorsko-tehnologicheskogo byuro "Biofizpribor"  
(nach. - glavnnyy konstruktor G.V. Rusakov) i kafedry patofizio-  
logii (zav. - chlen-korrespondent AMN SSSR prof. I.R. Petrov)  
Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.  
(OXIMETRY equip. & supply)

SOCHIVKO, L.F.; PAVLOVA, A.P.

Characteristics of the spectra of the absorption of blood following  
use of various anticoagulants. Lab.delo 6 no.6:35-39 N-D '60.  
(MIRA 13:11)

1. Samostoyatel'noye konstruktorskoye technologicheskoye byuro  
biologicheskogo i fiziologicheskogo priborostroyeniya, Leningrad.  
(BLOOD ANALYSIS AND CHEMISTRY)  
(ANTICOAGULANTS (MEDICINE))

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651910018-9

SOCHIVKO, L.F.; DULETOVA, M.Ye.; BOGOYAVLEN'SKAYA, N.A.; PERSHIN, Zh.A.

The IS-01 impulse stimulator. Med.prom. 15 no.9:51-53 S '61.  
(MIRA 14:9)

1. Samostoyatel'noye konstruktorskoye tekhnologicheskoye byuro  
"Biofizpribor".  
(PHYSIOLOGICAL APPARATUS)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651910018-9"

SOCHIKVKO, L.F.; VOLODINA, N.V.; POLETAYEVA, V.M.

Use of a flow oxyhemometer of the Po-OI type in artificial circulation. Vest.khir. 87 no.11:38-40 N '61. (MIRA 15:11)

1. Iz samostoyatel'nogo konstruktorskogo tekhnologicheskogo byuro biologicheskogo i fiziologicheskogo priborostroyeniya (Leningrad).  
Adres avtorov: Leningrad, Savirovskaya ul., 37, "Biofizpribor."  
(BLOOD—OXYGEN CONTENT) (BLOOD—CIRCULATION, ARTIFICIAL)

SOCHIVKO, L.F.; BOGOYAVLENSKAYA, N.L.; DULETOVA, M.Ye.; BELYSHEV, A.P.

New EFS-01 photostimulator. Med. prom. 16 no.1:57-59 Ja '62.  
(MIRA 15:3)

1. Samostoyatel'noye konstruktorskoye tekhnologicheskoye  
byuro biologicheskogo i fiziologicheskogo i fiziologicheskogo—  
priborostroyeniya.

(ELECTROENCEPHALOGRAPHY)  
(LIGHT--PHYSIOLOGICAL EFFECT)

SOCHIVKO, L.F.; VASADZE, G.Sh.; PAVLOVA, A.M. (Leningrad)

Flow-type oxyhemograph (type POG-01), a device for the continuous recording of the degree of oxygen saturation of the blood. Pat. fiziol. i eksp. terap. 6 no.6:80-81 N-D'62  
(MIRA 17:3)

1. Iz konstruktorskogo tekhnologicheskogo byuro "Biofizpribor" (nachal'nik - glavnyy konstruktor G.V. Rusakov) i kafedry patologicheskoy fiziologii (nachal'nik - deystvitel'nyy chlen AMN SSSR prof. I.R. Petrov) VoyennO-meditsinskoy ordena Lenina akademii imeni Kirova, Leningrad.

SOCHIVKO, L.F.; BOGOYAVLENSKAYA, N.I.; BUKHSEV, A.P.; VODINA, N.V.;

FFS-02 photophonostimulator. Med. prom. 17 no.9:48-50 S'63.  
(MIRE 17:5)

1. Samostoyatel'noye konstruktorskoye tekhnologicheskoye byuro  
"Biofizpribor".

S/181/63/005/003/026/046  
B102/B180

AUTHORS: Fomenko, L. A., Shchelkotunov, V. A., and Sochivko, V. L.

TITLE: Thermal conductivity of nickel-zinc ferrites in the temperature range 20-400°C

PERIODICAL: Fizika tverdogo tela, v. 5, no. 3, 1963, 874-882

TEXT: The heat conduction coefficient  $\lambda$  of nickel-zinc ferrites of almost stoichiometric composition was measured in dependence on temperature, composition and sintering temperature  $t_s$ . The compositions investigated were  $Ni_{x}Zn_{1-x}Fe_2O_4$  with  $x = 0, 0.1, 0.2, 0.25, 0.3, 0.35, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9$  and  $1.0$ . The specimens, discs  $\sim 1.5$  cm in diameter and  $\sim 0.4$  cm high, were sintered at  $t_s = 1100, 1150, 1200, 1250, 1300$  and  $1350^{\circ}\text{C}$ . At room temperature  $\lambda$  was  $0.006-0.009$  cal/cm.sec.deg and it was found to decrease slowly and almost linearly for those compositions whose Curie points were beyond the temperature range measured ( $x = 0, 0.1, 0.2, 0.8, 0.9, 1.0$ ); the other compositions had distinct maxima at the Curie point, caused by a sudden increase of about ten percent in the specific heat.  
Card 1/3

Thermal conductivity of nickel-zinc ... S/181/63/005/003/026/046  
B102/B180

and reduced anharmonicity of the thermal vibrations caused by an increase  
in exchange interaction. There are 4 figures and 1 table.

SUBMITTED: August 24, 1962

Card 3/3

SOCHIVKO, V. P. (Leningrad)

"Synthesis of Identifying Devices and Physiology of Sensory Organs."

report presented at the 3rd Conference on the use of Mathematics in Biology, Leningrad University, 23-28 Jan 1961.

(Moscow Agricultural Academy imeni Timiryazev).

SOCHIVKO, V.P.; GALICH, Ye.V., inzh., retsentent; TREVCGIN, P.A.,  
kand. tekhn. nauk, retsentent; KRAYZMER, L.P., nauchn. red.;  
SACHUK, N.A., red.; KRYAKOVA, D.M., tekhn. red.

[Pattern recognizing devices; survey of foreing and Russian  
literature] Opoznaishchie ustroistva; obzor otechestvennoi  
i zarubezhnoi literatury. Leningrad, Sudpromgiz, 1963. 78 p.  
(MIRA 16:11)

(Optical pattern recognition)

SOCHIVKO, V.P.

Synthesis of perceptive units (perceptrons) and the  
physiology of sense organs. Prim. mat. metod. v biol.  
no.2:67-72 '63. (MIRA 16:11)

SOCHIVKO, Vladimir Petrovich; KRUG, G.K., red.; BUL'DYAYEV, N.A.,  
tekhn. red.

[Electronic recognition systems] Elektronnye opoznaiushchie ustroistva. Moskva, Izd-vo "Energiia," 1964. 56 p.  
(Biblioteka po avtomatike, no.91) (MIRA 17:4)

SOCHIVKO, Vladimir Petrovich; GARMASH, V.A., red.

[Electrical modeling of neurons] Elektricheskie modeli  
neironov. Moskva, Energiia, 1965. 87 p. (Biblioteka po  
avtomatike, no.148) (MIRA 19:1)

USSR / Human and Animal Physiology (Normal and Patholo- T  
gical). Internal Secretion. Thyroid Gland

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 9768<sup>4</sup>

Author L Slyshko, V. N., Dobosh, S. I., Sochka, A. A.

Inst : Uzhgorod University

Title : On Classification of Thyroid Gland Diseases

Orig Pub: Nauchn. zap. Uzhgorodsk. un-t, 1955, 15, 33-38

Abstract: No abstract

Card 1/1

SOCHMAN, Alois

Extermination of rodents in food industry plants. Prum potravin  
13 no.12:653-654 D '62.

1. Prazsky prumysl masny, n.p., Praha.

LIBANSKY, J., Doz., Dr.; JOHN, C.; PUJMAN, V.; CHUDOMEL, V.; SOCHMAN, J.

Relation between leukemia and infection. Neoplasma, Bratisl.  
4 no.1:21-29 1957.

1. Institut fur Hamatologie und Bluttransfusion. Institut fur  
arztliche Mikrobiologie und Immunologie der Karls-Universitat  
Forschungsinstitut fur Pharmazie und Biochemie Praha. 2. Anschrift  
der Verfasser: Praha II, U nemocnice 1, Ustav hematologie a  
krevni transfuse.

(LEUKEMIA, exper.

eff. of exper. streptoc. hemolytic B infect. in mice  
(Ger))

(STREPTOCOCCAL INFECTIONS, exper.

hemolytic B, eff. on exper. leukemia in mice (Ger))

CZECHOSLOVAKIA/Human and Animal Physiology. Blood. Blood Coagulation.

T

Abs Jour: Ref Zbir-Biol., No 20, 1958, 93131.

Author: Podlak, P., Sochran, J., Dejilova, E., Pospisilova, V.

Lang:

Title: Study of Formation of Thromboplastin. I. Influence of S-S-Crossings.

Origi Pub: Physiol. bohem., 1957, 6, No 3, 399-406.

Abstract: A study was conducted on the action of cysteine (I), glutathione-SH (II), mercuric chloride (III), cyanide (IV), formaldehyde (V), and L-ascorbic acid (VI) on the formation of thromboplastin (T) and on results of Quick's tests *in vitro*. I, II, and III inhibited formation of T. But addition of them after 5 minutes to

Card : 1/2

40

SOCIMAN, J.

PUDIAK, P.; SOCHMAN, J.; DEJMLOVA, E.; POSPISILOVA, V.

Studies on synthesis of thromboplastin. I. Effect of SH groups.  
Cesk. fysiol. 6 no.3:404-412 Aug 57.

1. Ustav hematologie a krevni transfuse, Klinicke oddeleni UHKT, Praha.  
(**THROMBOPLASTIN**,  
synthesis, eff. of sulfhydryl groups (Cz))  
(**SULPHYDRYL COMPOUNDS, effects,**  
on thromboplastin synthesis (Cz))

LIBANSKY, J.; CHUDOMEL, Vl.; SOCHMAN, J.; BRABEC, V.

Clinical experiences with a new drug, chlorambucil (CB 1348), in malignant lymphogramuloma. Cas. lek. cesk. 96 no.37:1162-1167 13 Sept 57.

1. Ustav hematologie a krevni transfuse, Praha Klinicke oddeleni, prednosta: J. Libansky.

(HODGKIN'S DISEASE, ther.

chlorambucil (Cz))

(NITROGEN MUSTARDS, ther. use

chlorambucil in Hodgkin's dis. (Cz))

SOBESLAVSKY, C.; SOCHMAN, J.; MOTYCKA, K.

Effect of certain benzoquinone-ethyleneimino derivatives on experimental mouse leukemia. Neoplasma, Bratisl. 6 no.3:268-274 1959.

1. Institut fur Hamatologie und Bluttransfusion, Prag.  
(LEUKEMIA exper.)  
(QUINONES pharmacol.)  
(ANTINEOPLASTIC AGENTS pharmacol.)

LIBANSKY, J.; CHUDOMEL, V.; BRABEC, V.; SOCHMAN, J.

Treatment of malignant lymphomas and lymphadenoses with leukeran.  
Neoplasma, Bratisl. 6 no.4:415-424 1959.

1. Institute of Haematology and Blood Transfusion, Clinical  
Department, Prague, CSR.

(NITROGEN MUSTARDS, ther.)  
(LYMPHOMA ther.)  
(HODGKIN'S DISEASE ther.)  
(LEUKEMIA LYMPHATIC ther.)

SUCHMAN, J

— 2 —

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JULY 26 1968	
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6

MOTYCKA, K.; SOCHMAN, J.; SLAVIKOVA, V.; SLAVIK, K.

The difference in mechanism of action of aminopterin and some of its derivatives. Physiol. Bohemoslov. 11 no.2:101-106 '62.

1. Institute of Haematology and Blood Transfusion, and Laboratory of Protein Metabolism, Charles University, Prague.

(AMINOPTERIN pharmacol)

SVODOBA, M.; SOCHMAN, J.; URBANOVA, D.

Roentgenological picture of esophageal candidiasis. Cesk. gastroent.  
16 no.1:58-60 Ja '62.

1. Ustav hematologie a krevni transfuze v Praze, reditel prof. dr.  
J. Horejsi, DrSc. Hlavuv I. patologickoanatomicky ustav fakulty  
vseobecneho lekarstvi Karlovy university v Praze, prednosta prof.  
dr. B. Bednar, DrSc.  
(MONILIASIS) (ESOPHAGUS) (BONE MARROW DISEASES)

CZECHOSLOVAKIA

SOUCEK, J; MOTYCKA, K; SLAVIK, K; SOCHMAN, J.

1. Institute of Haematology and Blood Transfusion, Prague;
2. Laboratory for Protein Metabolism and Synthesis,  
Prague

Prague, Collection of Czechoslovak Chemical Communications,  
Vol 8, 1963, pp 2222-2226

"Metabolism of Folic Acid. IV. Mechanism of Biochemical  
Action of Some Folic Acid Antimetabolites in vivo."

SOUCEK, J.; SOCHMAN, J.; SLAVIK, K.

Activity changes of some enzyme systems interfering into the metabolism  
of folic acid in the livers of mice in the course of LaHVUFB leukaemia.  
Neoplasma 10 no.2:177-182 '63.

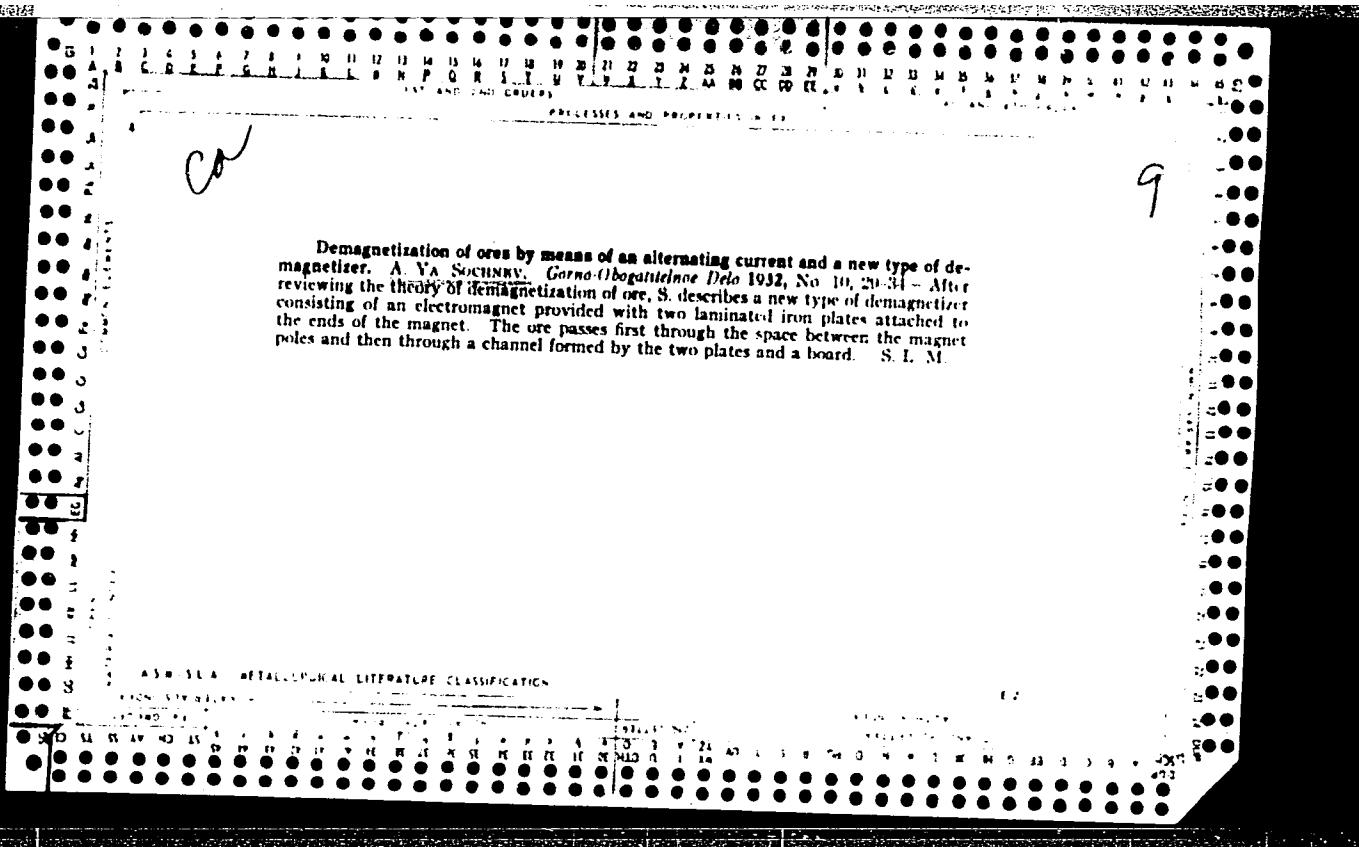
1. Institute of Haematology and Blood Transfusion, Laboratory of  
Protein Metabolism, Prague, CSSR.

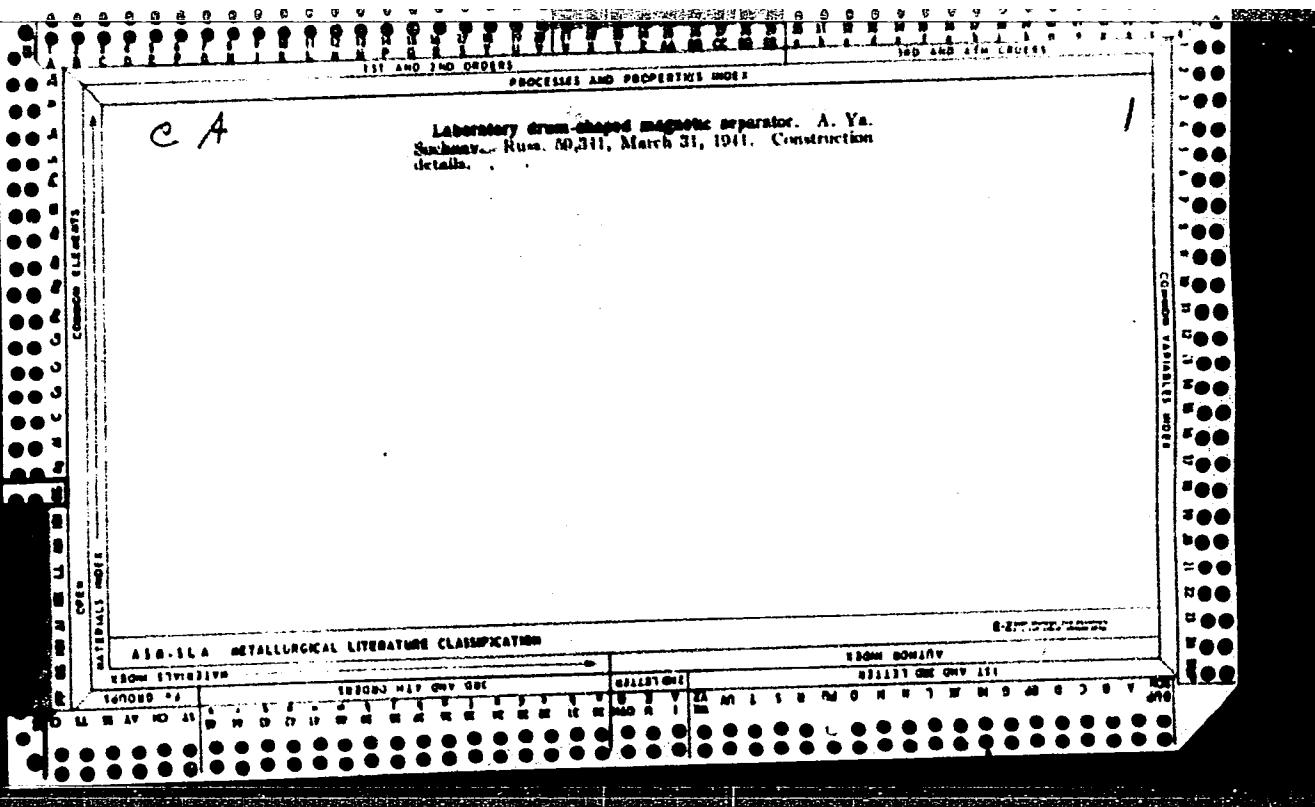
(LEUKEMIA, EXPERIMENTAL) (FOLIC ACID ANTAGONISTS)  
(LIVER) (METABOLISM) (DEHYDROGENASES) (TRANSFERASES)  
(ALDOLASE) (OXIDOREDUCTASES)

SOUCEK, J.; SOCHMAN, J.; MOTYCKA, K.; NOVOTNA, O.; SLAVIK, K.

The treatment of experimental mouse hemoblastosis. Part 3.  
Neoplasma (Bratisl.) 12 no.4:425-433 '65.

1. Institute of Hematology and Blood Transfusion, Laboratory  
of Protein Metabolism, Charles University, Prague, Czechoslo-  
vakia. Submitted June 13, 1964.





*Ca*

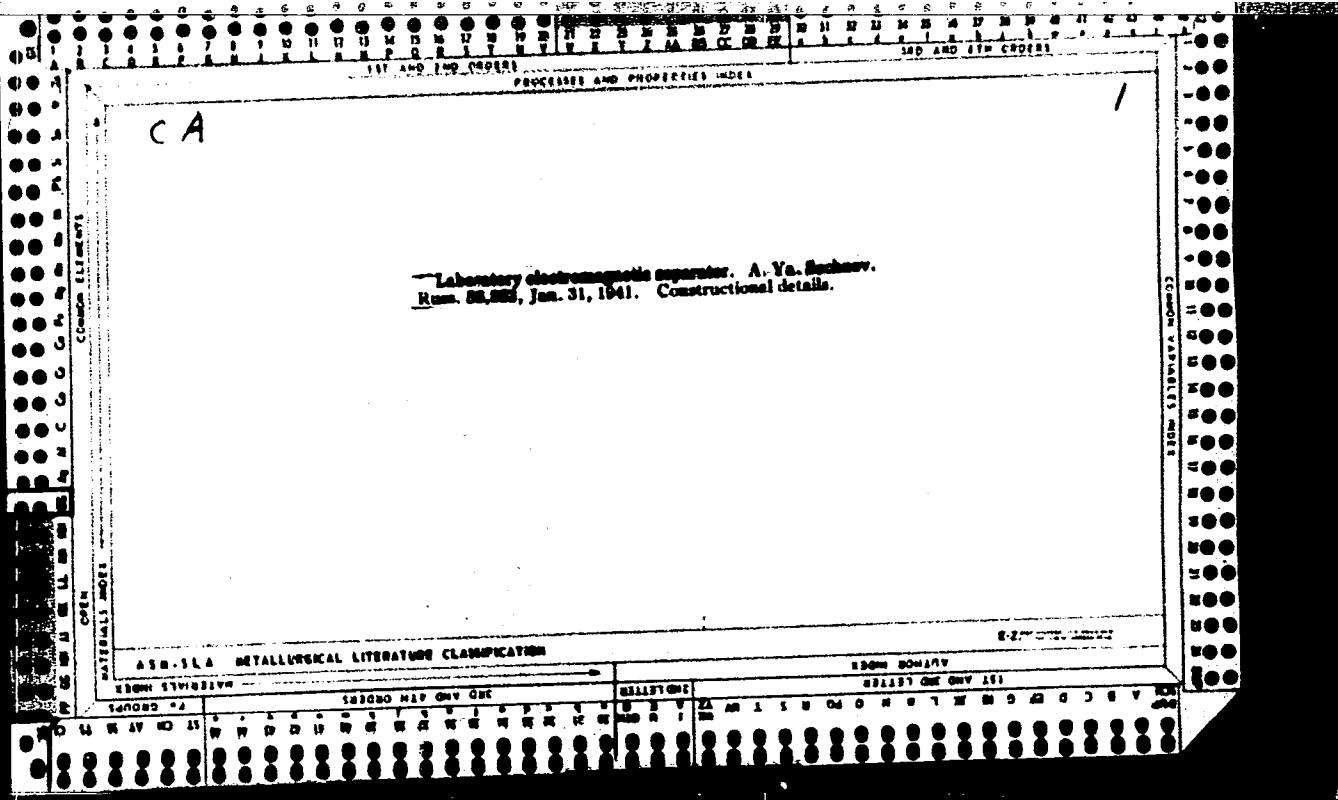
The simplest method for the determination of the magnetic susceptibility of minerals. A. Ya. Sosulin. Zashchitnaya Lab. 10, No. 1, 78-9 (1941); Chem. Zentr. 1943, I, 1913.—The magnetic mineral is placed between the 2 poles of an electromagnet and the field strength is increased until the force of gravity is just overcome. Then from the field strength  $H_1$  required and the corresponding field strength  $H_0$  required for a specimen of known susceptibility ( $k_0$ ), the susceptibility  $k$  of the mineral in question can be calculated from the relation  $k = (H_1^2/H_0)k_0$ . The procedure is explained.

M. G. Mose

## ASTORIA METALLURGICAL LITERATURE CLASSIFICATION

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651910018-9



APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651910018-9"

SOCINSKII, A. Ya.

Mbr., Mining Inst., Leningrad, -1941-. "A New Method for the Theoretical Investigation  
of Magnetic Field of Electrical Magnets," Dok. Akad. Nauk, 33, No. 1, 1941.

SOCHNEV, A.Ya.

Magnetic separator. Patent U.S.S.R. 77,959, Dec. 31, 1949.  
(C&A 47 no.19:10154 '53)

SOCHNEV, A. Ya.

178T100

USSR/Physics - Magnets, Permanent 1 Jan 51

"Determination of Optimum Parameters of Magnetic Systems With Permanent Magnets," A. Ya. Sochnev,  
Res Inst of Industrial Application of HF Currents,  
Leningrad

"Dok Ak Nauk SSSR" Vol LXXVI, No 1, pp 65-68

Derives parameters necessary for computation  
of max energy at min wt of permanent magnet des-  
pite number of parameters being greater than  
number of given eq.

178T100

S/057/60/030/008/009/019  
B019/B060

AUTHOR: Sochnev, A. Ya.

TITLE: A Magnetic System With Inhomogeneous Field for the  
Experimental Investigation of Electron Tubes<sup>25</sup>

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 8,  
pp. 933 - 937

TEXT: In the introduction, reference is made to the fact that many tubes (magnetron and others) require a magnetic field and that, as was found, the ordinary bipolar magnetic systems do not produce a sufficiently great inhomogeneity of the magnetic field for this tube type. The first part of the present paper contains an estimation of the maximum inhomogeneity of a magnetic field produced by an ordinary bipolar magnetic system. The theoretical construction of a magnetic system, in which the field strength on the axis between the two pole shoes changes by a certain law, is carried out in the second part. The final part deals with the investigation of a magnetic system producing a field whose strength changes on the axis between the poles according to a parabolic law.

Card 1/2

✓B

A Magnetic System With Inhomogeneous Field for  
the Experimental Investigation of Electron  
Tubes

S/057/60/030/008/009/019  
B019/B060

Equation (15) is obtained for the surface of the pole shoe terminals. It is stated that this field is considerably more inhomogeneous than fields with ordinary bipolar magnetic systems. There are 2 figures and 2 Soviet references.

✓B

SUBMITTED: January 25, 1960

Card 2/2

APOKNEV, A. Ya., kand.tekhn. naik

Calculation of magnetic systems with horn-shaped magnets.  
Trudy NIITVCh no.1/2:127-139 - 60. (MIRA .7:7)

SOCHNEV, M.

Materials on Latvian history. Vestis Latv ak no.11:161-162 '60.  
(EEAI 10:9)

(Latvia--History)

SOCHNEV, M.

Conference of Latvian philosophers. Vestis Latv ak no.12:174 '60.  
(EEAI 10:9)

(Philosophers, Latvian)

SOCHNEV, M. (Riga)

New material concerning life and activity of Petr Davydovich Ballod.  
Vestis Latv ak no.1:3-10 '61 (EEAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut ekonomiki.

(Ballod, Petr Davydovich) (Revolutionists, Latvian)

SOCHNEV, M.

Study on the history of philosophy; a review. Vestis Latv ak  
no.3:159-160 '61. (SEA I 10:9)

(Philosophy)

SOCHNEVA, V.A.

Solutions to general linear systems of partial differential  
equations over Gevrey spaces. Dokl. AN SSSR 166 no.1:41-44  
(MIRA 19:1)  
Ja '66.

I. Kuzanskiy gosudarstvennyy podgoretskii institut. Sub-  
mitted May 7, 1965.

SOCHOCKA, Maria

Economic utilization of thermoplastic scrap materials.  
Polimery tworz wielk 9 no. 1:2-4 Ja '64.

1. Association of the Organic and Plastics Industry Warsaw.

Sochon Z.

Sochon Z.

Sochon Z., Eng. "Survey of the Fulfilment of the Three-Year Melioration Plan and General Directives for the Six-Year Plan." (Analiza wykonania 3-letniego planu melioracyjnego i wtyczne do realizacji 6-letniego planu). Gospodarka Wodna, No. 3, 1950, pp. 91-96.

Building of dikes, dams, and drainage works. Regulation of rivers. Reconstruction of the Zulway water catchement system. Necessity of modernising the pumping stations and adapting the water catchment scheme to mechanised agriculture. The Vistula embankment. The problem of grazing lands. Melioration of state-owned farms and land estates. Analysis of the expenses and of the organization of supply. Scheduled fulfilment of the Six-Year Plan. Selection of skilled and unskilled manpower. Mechanisation of work. Maintaninace stations. Scientific research plan. Schemes to increase output and save costs.

SO: Polish Technical Abstracts - No. 2, 1951

SOCHON, Z.

"Designing Centers of Water Resources Service in the Soviet Union." p. 164 (GOSPODARKA  
WODNA, Vol. 13, No. 5, May 1953) Warszawa

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2, No. 10,  
October 1953. Unclassified.

SCHON, Z.

"Technical Designing of Water Irrigation Works in the Soviet Union." p. 221 (GOSFODARKA  
WODNA, Vol. 13, No. 6, June, 1953) Warsaw

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2, No. 10,  
October 1953. Unclassified.

Sochon, Z.

3728

Sochon, Z. Determination of Width of Bed at a Predetermined Irregular Water Flow and at Constant Depth.

„Określenie szerokości koryta przy zmiennym ustalonym ruchu wody przy zachowaniu stałej głębokości”. Gospodarka Wodna, No. 3, 1854, pp. 174—180, 7 figs., 4 tabs.

627.751

PH

It is frequently imperative, when designing devices for carrying water at a predetermined irregular rate of flow, to maintain a constant depth of water in the bed, at a definite volume of flow. On the basis of the fundamental differential equation, the author has drawn up an equation for a specific instance in which the down-current depth of the water is constant at a given rate of flow; this equation has been adapted to conditions for a trapezoidal section and eventually re-analysed, by the method of integration, for instances in which the bottom has a definite slope „I” and for a bed with horizontal bottom. The practicability of these equations is demonstrated on examples of 3 profile computations: a sill in a bed of trapezoidal shape; a reservoir excavation by a violent flow; and a canal sector of a given inlet width and definite outlet width, assuming a negative slope of the bed.

DVURNIK, Z.

"Balanatino in projects and estimates for drainage works."  
Gospodarka Wodna, Warsaw, Vol 14, No 6, June 1954, p. 215

SO: Eastern European Acquisitions List, Vol 3, No 10, Oct 1954, Lib. of Congress

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651910018-9

"On the basis of the analysis of possibilities of the 2d Plenum of the Central Committee of the Communist Party of the Soviet Union (Khrushchev, T. S., (Chairman), Vol. 10, No. 1, 21. 1. 1961, Moscow, Russia)

"On the basis of the 2d Plenum of the Central Committee of the Communist Party of the Soviet Union (Khrushchev, T. S., (Chairman), Vol. 10, No. 1, 21. 1. 1961, Moscow, Russia)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651910018-9"

SOCHON, Z.

In vestigating possibilities of the passage of water through the  
line of critical depths. p. 3. Vol. 3, no. 1, 1956 Warszawa  
ARCHIWUM HYDROTECHNIKI

SOURCE: East European Accession List (EEAL) Library of Congress  
Vol. 5, no. 8, August 1956

SOCHON, Zygmunt, prof. dr

International Commission on Irrigation and Drainage. Gosp wodna  
23 no.4:167-168 Ap '63.

SOCHON, Zygmunt, prof. dr inz.

Main trends of activites of the Institute of Soil Improvement  
and Grass Lands in water management and hydraulic and soil im-  
provement constructions. Gosp wodna 23 no. 8/9:347-350 Ag-S  
'63.

1. Director, Institute of Soil Improvement and Grasslands,  
Warsaw.

BRZCZK, Zygmunt, prof. dr inż.

A certain method of water control applied to transgression. Gosp  
wodna 24 nr. 3487-92 Mr '64.

I. Institute of Soil Improvement and Grassland Utilization, Warsaw.

SOCHOR, A.

Helping rationalizers, innovators, and inventors, p. 22  
(ZELEZNICAR, Vol. 6, no. 1, Jan. 1956, Praha, Czechoslovakia.)

SO: Monthly List of East European Accessions (EEAL ) LC. Vol. 6, no. 12, Dec. 1957.  
Uncl.

SOCNOR. A.

Mechanization of loading and unloading, and the task of improvers.  
p. 65. ZELEZICAR. (Ministerstvo dopravy) Praha. Vol. 6, No. 3,  
Mar. 1956

SOURCE: East European Accessions List. (EEAL)  
Library of Congress Vol. 5, No. 12,  
December 1956

2000, 5,

Twenty years of experience in the field. (Experiments)  
ID no. 4162-101 AF 1000.

Growing importance of the field militarily. Increasing  
Changes at the military institutions. Individualized

SOCHOR, Bretislav; HRUBY, Karel

Test of stiffening the rammed linings of induction melting  
furnaces and holding furnaces under high temperatures. Slevarenstvi  
12 no.8:321-322 Ag '64

1. State Research Institute of Material and Technology, Department  
of Founding, Brno.

BCS

*Apparatus & Methods  
of Testing*

1394. Determination of particle size.—B. SOCHON (Slavica, 28, 266, 283, 1950). The determination of particle size by microscopic measurement, sieve analysis, hydrometer, air-current counterflow, sedimentation and elutriation methods, and specific surface measurement is described. The relative time and ease of the determination, accuracy, etc., of the methods are compared. (6 figs., 2 tables.)

A/C A

*7/11/82*

Limiting range of values of some basic properties of fired brick and their relationships. O. KALLAUNER AND B. SOČÍKOVÁ. *Nástroje*, 27, 166 (1949). *Bull. Českos. Abstraktů*, 49 [9] 397a (1950). Above 200 samples of brick were tested for dimensions, bulk density, crushing strength and water absorption; 61.9 to 80.7% of the dimensional values of 223 samples fell within the prescribed limits. The highest variation was found with the length group 28.5 to 20.0 cm., the width group 13.8 to 14.1 cm., and the depth group 6.5 to 6.7 cm. Bulk density, water absorption, and crushing strength, on the contrary, showed values varying over a longer range. Bulk density values of 243 samples varied between 0.9 and 2.3 gm./ml. The greatest number (81%) of values fell between the limits 1.5 and 1.9 gm./ml. The water absorption of 92.6% of the samples varied between the values 5 and 30%; the remaining samples had an absorption as low as 1.1% and as high as 64.8%. A considerable number of values (70.3%) fell between the limits 11.1 and 20.4%. The crushing strength varied between 60 and 2000 kg./sq. cm.; the highest number of values (82.6%) fell within the range 600 to 1000 kg./sq. cm. The average crushing strength was 422 kg./sq. cm. If the values of 21 samples over 1000 kg./sq. cm. are disregarded, however, then the average crushing strength is 218 kg./sq. cm. with the range for the greater number of samples (84.0%) from 150 to 280 kg./sq. cm. The investigation of relationships between bulk density, water absorption and crushing strength showed that there is a marked inverse correlation between bulk density and water absorption. There was also a marked inverse correlation between grouped values for water absorption and crushing strength with the limits of water absorption from 1 to 41%. The correlation between individual values was less obvious. The results of this study have been used for the recent revision of the Czech standard for fired brick. 9 figures.

ACA

Raw Materials

**Soapstone and talc.** In *National Statistic*, 27, 185 (1949), *Prod. Crust. Talc, & Soapstone*, 49, 377-382 (1951). Soapstone and talc are two of the minerals of the general formula  $3\text{MgO} \cdot \text{SiO}_2 \cdot \text{H}_2\text{O}$ . The formula precipitates a 47% constitutional water content, but since the material in natural occurrences showed a smaller  $\text{H}_2\text{O}$  content, the formula  $3\text{MgO} \cdot \text{SiO}_2 \cdot \text{H}_2\text{O}$ , with 37.5%  $\text{H}_2\text{O}$ , has been suggested. P. W. Clarke and E. A. Schneider report that the most suitable formula  $3\text{MgO} \cdot \text{SiO}_2 \cdot \text{H}_2\text{O}$ , J. Millauer and P. Slezák have introduced the formula  $1.5\text{MgO} \cdot \text{SiO}_2 \cdot \text{H}_2\text{O}$ , and Norton uses the formula  $\text{Mg}_3\text{Si}_2\text{O}_5 \cdot \text{OH}_2 \cdot \text{H}_2\text{O}$ . F. Singer, E. Allery, Schoniger, and Salming maintain that the composition of the silicate may range from  $3\text{MgO} \cdot 4\text{SiO}_2 \cdot \text{H}_2\text{O}$  to  $4\text{MgO} \cdot \text{SiO}_2 \cdot \text{H}_2\text{O}$  to  $1.5\text{MgO}$ , and, finally, J. W. Gerner, T. Ernst, and Höckemann-Wilberg suggest the formula  $3\text{MgSi}_2\text{O}_5 \cdot \text{OH}_2 \cdot \text{H}_2\text{O}$ . The hydromagnesite mentioned is found in nature in two forms: (1) talc, a bimellar material composed of visible macroscopic crystals with a parallel layer arrangement, and (2) soapstone, the cryptocrystalline type. The largest European talc deposits are in Spain and France and there are smaller ones in Rumania, Russia, Italy, Greece, Norway, and Switzerland. The most important world occurrences are in Canada and the U. S. The remaining India, and the Transvaal. The soapstone occurrences are more scarce. The best European deposits are in Rumania, Bulgaria, Gladbeck, Thüringen, and Windisch. These deposits sometimes reach a thickness of over 200 ft. (first German) deposits are at Schleiden and Elberfeld. In Czechoslovakia talc species of talc are found in Northern Moravia (so-called "Toplata"), as a mixture of talc with chrysotile, carbonaceous tremolite, silica, iron mineral, etc. Other deposits are in the southern part of the Slovákovian mountains in the district of Hustopeče. The chemical compositions of talc and soapstone are related and their properties and changes during heating are described.

SOCHOR, B.

Polish Technical Abstracts  
No. 4, 1953  
Mechanics, Electrotechnics,  
Power

2407

014.8 : 621.36

Sochor B. Electric Heating Equipment for Industrial Purposes.

"Elektryczne urządzenia grzewne przemysłowe". Ochrona Pracy No. 2, 1953, pp. 42-43, 17 figs.

The author refers, from the point of work protection, to the merit of various types of electric heating equipment for industrial purposes, and reviews the safety regulations with which they should comply in order to reduce likely hazards. He deals with the danger caused by electrical, thermal, chemical, mechanical and lighting effects. Electric heating equipment for industrial purposes is safer to use than any other type of equipment, and is more simple to attend to.

C Z E C H

1151\* Use of Small Coke for Cupola of 1200 Min. Diameter. Použití drobného koksu v koplovně o průměru 1200 mm. (Czech.) Bedřich Sochor and Švatopluk Jouza. Slezskořez, v. 2, no. II, Nov. 1954, p. 323-327.

Optimum size was found to be 1/10 to 1/15 of i.d. of the cupola. Graphs, diagrams, tables. 18 ref.

BOCHER, E.

"Electric Heating of Steel for Forging", p. 131, (MIA'OKO I ALLEGRO-  
ZCZNIENIE, Vol. 14, No. 1, June 1954, Warsaw, Poland)

SC: Monthly List of East European Acquisitions (EPA), LC, Vol. 4, No. 3,  
March 1955, Uncl.

JOGIER, S.

"Waiting Steel by the Method of Immediate Resistance", p. 221, (JAKI) CCI  
ZEGOWSKIE, Vol. 14, No. 10, October 1954, Warsaw, Poland)

SC: Monthly List of East European Accessions (EWA), LC, Vol. 4, No. 3,  
March 1955, Uncl.

~~H. H. AMM~~ Sochor, B.

3

Alloying of Cast Iron by Means of Slag in the Cupola. B.  
Sochor. (Stoczenstw, 1955, 3, (6), 169-173). [In Czech].  
Titanium and boron were found to pass from slags to the  
metal in the cupola. This effect is likely to occur also with  
Ni, Mo, V, Cr, W, and other metals. Thus by using boron-  
and titanium-rich slags, expensive ferrö-alloys can be dis-  
pensed with. Both elements were found to decrease slag  
viscosity. --P. F.

Df

SOCHOP, B.

"Progress in the manufacture and utilization of enamels." p. 59.

TECHNICKA PRACA. (Rada vedeckych technickych spolocnosti pri Slovenskej akademii vied). Bratislava, Czechoslovakia, Vol. 7, No. 2, 1955.

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August 1959.  
Uncla.